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ard barometer ; and also the precession, by the same interval, of the mean changes of this latter instrument over those of the mountain barometer. The author concludes by announcing many objects he has in view in the investigations in which he is at present engaged.

12. "Note on the Tides in the Port of London," by J. W. Lubbock, Esq. V.P. and Treas. R.S.

The author gives a comparative view of the predicted times of high water deduced from Mr. Bulpit's tables, White's Ephemeris, and the British Almanac, with the observations at the London Docks, from data furnished to him by Mr. Stratford ; and also a comparison, by Mr. Deacon, at the London and St. Katherine's Docks.

13. "Researches in Physical Astronomy," by the same.

In this Paper a method is given of developing the disturbing function, in which the coefficients of the inequalities corresponding to any given order, are expressed in terms of the coefficients of the inferior orders ; so that, for example, the coefficients of the terms in the disturbing function, multiplied by the squares of the eccentricities, are given analytically by means of the coefficients of those independent of the eccentricities, and of those multiplied by their first powers. As the theorems, to which this method gives rise, are of great simplicity, the author considers them as deserving attention.

The Society then adjourned over the Long Vacation, to the 15th of November.